WEINTEK LABS., INC.

iR-COP & Digital Module Settings

Demo Project

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1. Overview

This demo project introduces how to quickly start using an iR Series digital module. In this demo project, iR-DM16-P is used as the first module connected to an iR-COP coupler. The parameter settings of iR-COP are as follows:

Node ID: 1

Baud Rate: 250K

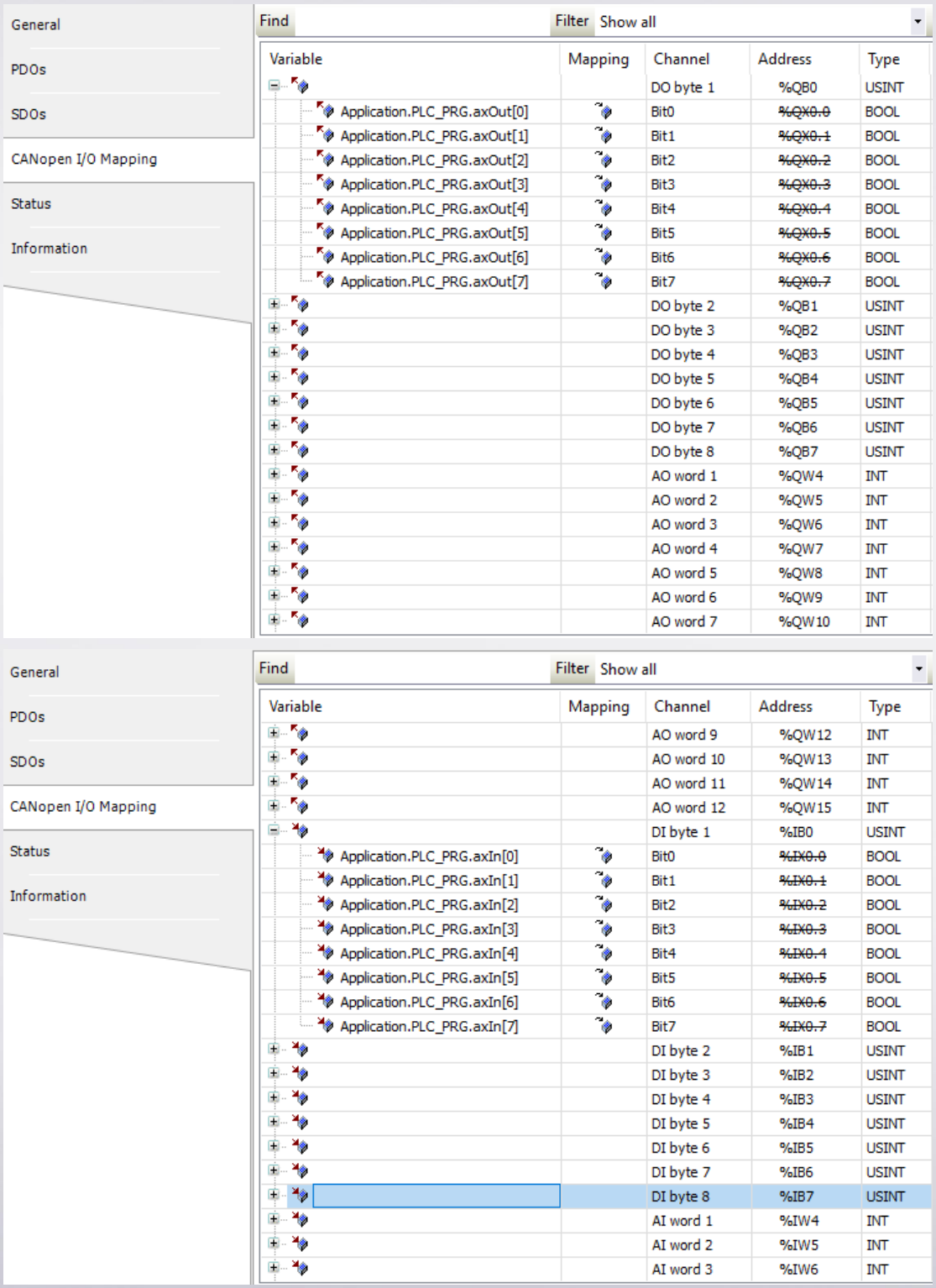
2. Operation

Step 1. In CODESYS software add an iR-COP communication device, and make sure that the Node ID and Baud Rate settings in the software are identical to the settings on iR-COP coupler.

Step 2. Declare variables in the program and configure the number of input/output points.

```
PROGRAM PLC_PRG
VAR
    xDM16_In_0, xDM16_In_1, xDM16_In_2, xDM16_In_3, xDM16_In_4, xDM16_In_5, xDM16_In_6, xDM16_In_7 : BOOL ;
    xDM16_Out_0, xDM16_Out_1, xDM16_Out_2, xDM16_Out_3, xDM16_Out_4, xDM16_Out_5, xDM16_Out_6, xDM16_Out_7 : BOOL ;
    axIn : ARRAY[0..7] OF BOOL ;
    axOut : ARRAY[0..7] OF BOOL ;
END_VAR
```

```
xDM16_In_0 := axIn[0] ;
xDM16_In_1 := axIn[1] ;
xDM16_In_2 := axIn[2] ;
xDM16_In_3 := axIn[3] ;
xDM16_In_4 := axIn[4] ;
xDM16_In_5 := axIn[5] ;
xDM16_In_6 := axIn[6] ;
xDM16_In_7 := axIn[7] ;
axOut[0] := xDM16_Out_0;
axOut[1] := xDM16_Out_1;
axOut[2] := xDM16_Out_2;
axOut[3] := xDM16_Out_3;
axOut[4] := xDM16_Out_4;
axOut[5] := xDM16_Out_5;
axOut[6] := xDM16_Out_6;
axOut[7] := xDM16_Out_7;
```



Step 3. Click [Login] button to make CODESYS start reading from / writing to iR-DM16-P's Input/Output points.